

CLAIMS:

1. A receiver (1) for receiving radio frequency signals and comprising
a first stage (3) for amplifying and tuning radio frequency signals and for
generating intermediate frequency signals;
a first gain controller (38) for controlling a gain of the first stage (3);
5 a second stage (5) for amplifying and demodulating intermediate frequency
signals;
a second gain controller (54) for controlling a gain of the second stage (5);
which first and second gain controllers (38,54) control the gains independently from each
other.
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2. A receiver (1) according to claim 1, wherein both gain controllers (38,54) are
adjusted at the same reference level for controlling the gains in relation to this reference
level.
- 15 3. A receiver (1) according to claim 2, wherein the second stage (5) comprises a
first intermediate frequency amplifier (50) and a second intermediate frequency amplifier
(51), with the first gain controller (38) comprising a first gain detector (41) for detecting an
output signal of the first intermediate frequency amplifier (50) and a first gain generator (40)
for generating, in response to the detecting, a first gain control signal to be supplied to a
20 control input (39) of a radio frequency amplifier (31) in the first stage (3).
4. A receiver (1) according to claim 3, wherein the second stage (5) comprises an
intermediate frequency demodulator stage (52) having an input coupled to an output of the
second intermediate frequency amplifier (51) and an output coupled to an input of a video
25 amplifier (53) for generating a video signal, with the second gain controller (54) comprising a
second gain detector (59) for detecting an output signal of the intermediate frequency
demodulator stage (52) and a second gain generator (58) for generating, in response to the
detecting, a second gain control signal to be supplied to a control input (57) of the second
intermediate frequency amplifier (51).

5. A tuner for use in a receiver (1) for receiving radio frequency signals, which receiver (1) comprises
- a first stage (3) for amplifying and tuning radio frequency signals and for generating intermediate frequency signals;
 - a first gain controller (38) for controlling a gain of the first stage (3);
 - a second stage (5) for amplifying and demodulating intermediate frequency signals;
 - a second gain controller (54) for controlling a gain of the second stage (5);
- which first and second gain controllers (38,54) control the gains independently from each other, and which tuner comprises the first stage (3) and the first gain controller (38).
6. A demodulator for use in a receiver (1) for receiving radio frequency signals, which receiver (1) comprises
- a first stage (3) for amplifying and tuning radio frequency signals and for generating intermediate frequency signals;
 - a first gain controller (38) for controlling a gain of the first stage (3);
 - a second stage (5) for amplifying and demodulating intermediate frequency signals; and
 - a second gain controller (54) for controlling a gain of the second stage (5);
- which first and second gain controllers (38,54) control the gains independently from each other, and which demodulator comprises the second stage (5) and the second gain controller (54).
7. A method for receiving radio frequency signals and comprising
- a first step of amplifying and tuning radio frequency signals and of generating intermediate frequency signals;
 - a second step of controlling a gain of the first step;
 - a third step of amplifying and demodulating intermediate frequency signals;
 - and
 - a fourth step of controlling a gain of the third step;
- which second and fourth steps control the gains independently from each other.

8. Processor program product for receiving radio frequency signals and comprising

a first function of amplifying and tuning radio frequency signals and of generating intermediate frequency signals;

5 a second function of controlling a gain of the first function;

a third function of amplifying and demodulating intermediate frequency signals; and

a fourth function of controlling a gain of the third function;

which second and fourth functions control the gains independently from each other.